MAR - 5 2002



TECH CENTER 1600/2900

RAW SEQUENCE LISTING

DATE: 02/28/2002

PATENT APPLICATION: US/09/517,491

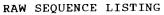
TIME: 14:57:34

Input Set : N:\Crf3\RULE60\09517491.raw Output Set: N:\CRF3\02282002\I517491.raw

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

	3			FORFIATION.												
	5	(i)	APPLI	CANT: Berlin, Vivian												
	6			Chiu, Maria Isabel												
	7			Cottarel, Guillaume												
	8			Damagnez, Veronique												
	10	(ii)	TITLE	LE OF INVENTION: IMMUNOSUPPRESSANT TARGET PROTEINS												
	12	(iii)	NUMBE	R OF SEQUENCES: 35												
	14	(iv)	CORRE	ESPONDENCE ADDRESS:												
	15			ADDRESSEE: FOLEY, HOAG & ELIOT LLP												
	16		(B)	STREET: One Post Office Square												
	17		(C)	CITY: Boston												
	18		(D)	STATE: MA												
	19		(E)	COUNTRY: USA												
	20		(F)	ZIP: 02109-2170												
	22	(V)		TTER READABLE FORM:												
	23		(A)	MEDIUM TYPE: Floppy disk												
	24		(B)	COMPUTER: IBM PC compatible												
	25			OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0, Version #1.30												
	26		(D)													
	28	(vi)	CURRE	ENT APPLICATION DATA:												
C>	29		(A)	APPLICATION NUMBER: US/09/517,491												
C>	30		(B)	FILING DATE: 02-Mar-2000												
	31		(C)	CLASSIFICATION:												
	33	(vii)		R APPLICATION DATA:												
	34		(A)	APPLICATION NUMBER: 08/360,144												
	35			FILING DATE: 20-DEC-1994												
	39	(viii)		RNEY/AGENT INFORMATION:												
	40			NAME: Vincent, Matthew P.												
	41			REGISTRATION NUMBER: 36,709												
	42			REFERENCE/DOCKET NUMBER: APV-036.02												
	44	(ix)		COMMUNICATION INFORMATION:												
	45		, ,	TELEPHONE: 617-832-1000												
	46		(B)	TELEFAX: 617-832-7000												
	49	(2) INFO	ON FOR SEQ ID NO: 1:													
	51	(i)		ENCE CHARACTERISTICS:												
	52			LENGTH: 486 base pairs												
	53			TYPE: nucleic acid												
	54		(C)	STRANDEDNESS: both												
	55			TOPOLOGY: linear												
	57	(ii)	MOLE	CULE TYPE: cDNA												
	60	(ix)	FEAT	JRE:												
	61		(A)	NAME/KEY: CDS												



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62 (B) LOCATION: 1486													
65 (xi) SEQUENCE DESCRIPTION													
	AAC AAG ATC TTG AAG AAC ATG TGT GAA 48												
_	Asn Lys Ile Leu Lys Asn Met Cys Glu												
69 1 5	10 15												
	CAG GCC ATG ATG GTG AGT GAA GAG CTG 96												
	Gln Ala Met Met Val Ser Glu Glu Leu												
73 20	25 30												
	CAT GAG ATG TGG CAT GAA GGC CTG GAA 144												
	His Glu Met Trp His Glu Gly Leu Glu												
77 35	40 45												
	GGG GAG AGG AAC GTG AAA GGC ATG TTT 192												
	Gly Glu Arg Asn Val Lys Gly Met Phe												
81 50 55	60												
	GCT ATG ATG GAA CGG GGT CCC CGG ACT 240												
84 Glu Val Leu Glu Pro Leu His	Ala Met Met Glu Arg Gly Pro Arg Thr												
85 65 70	75 80												
	CAG GCA TAT GGC CGA GAT TTA ATG GAG 288												
88 Leu Lys Glu Thr Ser Phe Asn	Gln Ala Tyr Gly Arg Asp Leu Met Glu												
89 85	90 95												
	TAC ATG AAG TCG GGG AAC GTC AAG GAC 336												
92 Ala Gln Glu Trp Cys Arg Lys	Tyr Met Lys Ser Gly Asn Val Lys Asp												
93 100	105 110												
95 CTC ACG CAA GCC TGG GAC CTC	TAC TAT CAC GTG TTC AGA CGG ATC TCA 384												
96 Leu Thr Gln Ala Trp Asp Leu	Tyr Tyr His Val Phe Arg Arg Ile Ser												
97 115	120 125												
99 AAG CAG CTA CCC CAG CTC ACA	TCC CTG GAG CTG CAG TAT GTG TCC CCC 432												
100 Lys Gln Leu Pro Gln Leu Th.	r Ser Leu Glu Leu Gln Tyr Val Ser Pro												
101 130 13	5 140												
103 AAA CTT CTG ATG TGC CGA GA	C CTT GAG TTG GCT GTG CCA GGA ACA TAC 480												
104 Lys Leu Leu Met Cys Arg As	p Leu Glu Leu Ala Val Pro Gly Thr Tyr												
105 145 150	155 160												
107 GAC CCC	486												
108 Asp Pro													
112 (2) INFORMATION FOR SEQ ID	NO: 2:												
114 (i) SEQUENCE CHARACTE													
115 (A) LENGTH: 162	amino acids												
116 (B) TYPE: amino	acid												
117 (D) TOPOLOGY: li	near												
119 (ii) MOLECULE TYPE: pr	otein												
121 (xi) SEQUENCE DESCRIPT	ION: SEQ ID NO: 2:												
123 Leu Thr Arg His Asn Ala Al.	a Asn Lys Ile Leu Lys Asn Met Cys Glu												
124 1 5	10 15												
	n Gln Ala Met Met Val Ser Glu Glu Leu												
127 20	25 30												
	p His Glu Met Trp His Glu Gly Leu Glu												
130 35	40 45												
	e Gly Glu Arg Asn Val Lys Gly Met Phe												
	5 60												

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	135	Glu	Val	Leu	Glu	Pro	Leu	His	Ala	Met	Met	Glu	Arg	Gly	Pro	Arg		
	136	65					70					75					80	
	138 139	Leu	Lys	Glu	Thr	Ser 85	Phe	Asn	Gln	Ala	Tyr 90	Gly	Arg	Asp	Leu	Met 95	Glu	
		Ala	Gln	Glu	Trp	Cys	Arg	Lys	Tyr	Met 105	Lys	Ser	Gly	Asn	<b>V</b> al	Lys	Asp	
	144	Leu	Thr		Ala	Trp	Asp	Leu	Tyr 120		His	Val	Phe	Arg 125	Arg	Ile	Ser	
	145	Tare	Gln	115 Leu	Pro	Gln	Leu	Thr		Leu	Glu	Leu	Gln		Val	Ser	Pro	
	148	цуз	130	пси	110	011.	Dea	135	501	Бой	014	Lou	140	-1-				
		Lys		Leu	Met	Cys	Arg	Asp	Leu	Glu	Leu	Ala	Val	Pro	Gly	Thr	Tyr	
	151	145					150					155					160	
		Asp																
	156	(2)			TION													
	158		(i	•	QUEN													
	159				A) L													
	160 (B) TYPE: nucleic acid  161 (C) STRANDEDNESS: single																	
	161 (C) STRANDEDNESS: single 162 (D) TOPOLOGY: linear																	
	162			•	,				ear									
v>					LECUI				<b></b>	- no	TTO NI	<b>.</b>						
	168	000			QUEN													40
	170 GGGTTTGGAA TTCCTAATAA TGTCTGTACA AGTAGAAACC														40			
		172 (2) INFORMATION FOR SEQ ID NO: 4:																
	174 (i) SEQUENCE CHARACTERISTICS: 175 (A) LENGTH: 34 base pairs																	
	176			•	B) T				-									
	177				C) S'													
	178				D) T					J = 0								
N>			/ii	•	LECUI													
	184				QUEN				ON:	SEO	ID N	0: 4	:					
		GGG			ATCC													34
					TION													
	190	` '			QUEN													
	191			(.	A) L	ENGT!	H: 3	48 b	ase	pair	s							
	192			(	В) Т	YPE:	nuc	leic	aci	d								
	193			(	C) S'	TRAN	DEDN	ESS:	sin	gle								
	194			(	D) T	OPOL	OGY:	line	ear									
	196		•	•	LECU:		YPE:	CDN	A									
	199		(ix	,	ATUR													
	200				A) N				205									
	201		, ,		B) L					C E O	T D NI	٠. E	_					
	204	CCN			QUEN ATA									ייכר ו	CCA (	CCN (	CAC	49
	207	GGA	ATTC	CIA.		Met				Val					Pro (			4.2
	208	666	000	100	mma	1	A A C	ccc	ccc	5 CAC	N C C	TTC C	CTC	CTTC	10	ሞአ 🗠	A C C	97
					TTC Phe													٠, ر
	212	стХ	MIG	15		FIO	ьуѕ	ALY	20	GIII	T111	Cys	va <sub>1</sub>	25	1113	- Y -	1111	
		GGG	ATG		GAA	GAT	GGA	AAG		TTT	GAT	TCC	TCC		GAC	CGT	AAC	145

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	215 216	Gly	Met 30	Leu	Glu	Asp	Gly	Lys 35	Lys	Phe	Asp	Ser	Ser 40	Arg	Asp	Arg	Asn	
		AAG		TTT	AAG	TTT	ATG	CTA	GGC	AAG	CAG	GAG	GTG	ATC	CGA	GGC	TGG	193
							Met											
		45			_		50					55					60	
		GAA	GAA	GGG	GTT	GCC	CAG	ATG	AGT	GTG	GGT	CAG	CGT	GCC	AAA	CTG	ACT	241
	223	Glu	Glu	Gly	Val	Ala	Gln	Met	Ser	Val	Gly	Gln	Arg	Ala	Lys	Leu	Thr	
	224					65					70					75		
	226	ATA	TCT	CCA	GAT	TAT	GCC	TAT	GGT	GCC	ACT	GGG	CAC	CCA	GGC	ATC	ATC	289
	227	Ile	Ser	Pro	Asp	Tyr	Ala	Tyr	Gly	Ala	Thr	Gly	His	Pro	Gly	Ile	Ile	
	228				80					85					90			
							CTC							CTA	AAAC!	rgg		335
		Pro	Pro	His	Ala	Thr	Leu	Val		Asp	Val	Glu	Leu					
	232			95					100									240
				GGA :						-								348
	237 (2) INFORMATION FOR SEQ ID NO: 6: 239 (i) SEQUENCE CHARACTERISTICS: 240 (A) LENGTH: 104 amino acids																	
	240				-					acı	ds							
	241			•	•		amir											
	242 (D) TOPOLOGY: linear 244 (ii) MOLECULE TYPE: protein 246 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:																	
	246	<b>3</b>					Glu							C111	λκα	Пhr	Dhe	
			ser	val	GII	<b>v</b> a1	GIU	1111	ire	ser	10	GIY	АБР	Gly	Arg	15	FILE	
	249	1	Tuc	λrα	C1 17		Thr	Cvc	Wal	Wal		Тυν	Thr	Glv	Met		Glu	
	252	PIO	пур	AIG	20	GIII	1111	Cys	Val	25	1112	1 Y 1	1111	OI,	30	шеч	Olu	
		Aen	G1 v	T.V.C		Phe	Asp	Ser	Ser		Asp	Ara	Asn	Lvs		Phe	Lvs	
	255	КЪР	Oly	35	цуб	1110	n.p	001	40	9		9		45				
		Phe	Met		Glv	Lvs	Gln	Glu		Ile	Arg	Glv	Trp	Glu	Glu	Gly	Val	
	258	1	50	204	011	270		55			5	1	60			-		
		Ala		Met	Ser	Val	Gly	Gln	Arg	Ala	Lys	Leu	Thr	Ile	Ser	Pro	Asp	
	261	65					70		_			75					80	
	263	Tyr	Ala	Tyr	Gly	Ala	Thr	Gly	His	Pro	Gly	Ile	Ile	Pro	Pro	His	Ala	
	264	-				85					90					95		
	266	Thr	Leu	Val	Phe	Asp	Val	Glu	Leu									
	267				100													
	270	(2)	INF	ORMA!	rion	FOR	SEQ	ID 1	NO:	7:								
	272		(i				HARA											
	273			•	,		H: 48		_									
	274			,	,		nucl											
	275						DEDN			gle								
	276			•	•		OGY:		ear									
M>							YPE:		211	700	TD 37	·	_					
	282	mac:					ESCR:							20 N EP	-			48
							GG A				ACAA(	JTAG	AAA	CAT'	_			40
		(2)					SEQ HARA											
	288 289		( т				HARAG H: 34											
	289						nuc.											
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PATENT APPLICATION: US/09/517,491

DATE: 02/28/2002 TIME: 14:57:35

	291			((	C) S.	FRANI	DEDNI	ESS:	sing	gle								
	292			(1	) T	OPOL	GY:	line	ear									
M>	294		(ii)															
	298									SEQ :		0: 8	:					
										A GA	<b>A</b> G							34
	302	(2)	INFO															
	304		(i)		-			CTER:										
	305							l bas										
	306			•	•			leic										
	307				•			ESS:		gle								
	308							line	ear									
M>						LE T												
	314									SEQ :								4.7
		6 CGCGGATCCG CGCATTATTA CTTGTTTTGA TTGATTTTTT G													41			
		318 (2) INFORMATION FOR SEQ ID NO: 10:																
	320 (i) SEQUENCE CHARACTERISTICS: 321 (A) IFNCTH: 40 base pairs																	
		321 (A) LENGTH: 40 base pairs																
		322 (B) TYPE: nucleic acid																
		(C) STRANDEDNESS: single (D) TOPOLOGY: linear																
T.T	324		(44)	•	•				eal									
M>	330					LE T			`N. (	SEQ :	ID NO	)· 1(	٦.					
		cccc								C AA:			٠.					40
			INFO								LIGA	3000						10
	337	(2)						CTER										
	338		( - ,		_					pai:	rs							
	339							leic			_							
	340							ESS:										
	341			•	•			line										
	343		(ii)					CDN										
	346				ATURI													
	347			( ]	A) NA	AME/I	KEY:	CDS										
	348			( F	3) LO	CAT	ON:	1	5427									
	351		(xi)	SE	QUEN	CE DI	ESCR	IPTIC	ON: S	SEQ :	ID NO	): 13	1:					
										ATC								48
			Glu	His	ser	_	Ile	Gly	Arg	Ile	_	Glu	Gln	Ser	Ala		Met	
	355	1				5					10					15		
										CCC								96
		Leu	Gly							Pro							Met	
	359				20					25								7.4.4
										TTG								144
		Glu	Pro		Leu	ГÀг	Ala	Leu		Leu	ьys	ьeu	ьуs		Pro	Asp	Pro	
	363	C 7 TT	003	35	003	C C T	CEC.	3 m.c	40	7 7 C	cmc	ama	CCA	45	א ווויא	CCA	C 3 3	100
										AAT								192
		Asp		Asn	Pro	GIÀ	val		asn	Asn	val	ьeu		rnr	TTE	стА	GIU	
	367	mmc	50	CAC	C mm	л c m	ccc	55 CTC	$C \lambda \lambda$	א יייכ	NCC	אאא	60 TCC	Cmm	C N TP	CNN	Сфф	240
										ATG Met								240
	371	65	AId	GTII	val	261	70	ьeu	GIU	MEL	мту	лув 75	115	va⊥	иор	GIU	80 Eu	
	2/1	03					70					, 3					30	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/517,491

DATE: 02/28/2002 TIME: 14:57:36

Input Set : N:\Crf3\RULE60\09517491.raw
Output Set: N:\CRF3\02282002\I517491.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:164 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3 L:180 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=4 L:278 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=7 L:294 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=8 L:310 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=9 L:326 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10 L:1705 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=21 L:1721 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=22 L:1775 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 L:1820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 L:1835 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=25 L:1858 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=26 L:1875 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=27 L:1892 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=28 L:1909 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=29 L:1926 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=30 L:1943 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=31 L:1960 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=32 L:1977 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=33 L:1994 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=34 L:2021 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=35